Integrated Digital Environment (IDE) (Program Level)

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- **Integrated Digital Environment (IDE)**
  - A physically distributed, logically linked data structure for the collection and sharing of product definition and support data
  - An end state in which technical and business information is readily available real-time, and cost effectively, to all participants

Integrated Digital Environment (Examples)

- Enterprise Resource Planning (ERP)
- Multi-User ECP Automated Review System (MEARS)
- Configuration Management Information System (CMIS)

Enterprise Resource Planning

A method for effectively planning and controlling all the sources needed to take, make, ship and account for customer orders in a manufacturing, distribution or service company.

Includes:

- Typical MRP II Functions
- Sales Force Automation
- **Engineering Functions/PDM**
- Advanced Manufacturing Functions
- Distribution/Logistics Functions
- Quality Functions
- Field Service Functions
- Complete Financial Functions
- Human Resources Functions
- Management Reporting

ERP is a System for the Entire Company - A Global Tightly Integrated Closed-Loop System

 Source: APICS Complex Industries Special Interest Group

Enterprise Resource Planning

Engineering & Product Data Management

- Document Creation, Management & Control
- CAD Interface/Image Management
- Configuration Management
  - **Change Order Creation & Control**
  - **Revision Control**
- Engineering Data Management
- Product Information Management
- Technical Data Management
- Technical Information Management
- Engineering Item Data & BOMs

Multi-User ECP Automated Review System (MEARS)

- **Multi-User ECP Automated Review System (MEARS) is a Department of Defense approved, web-based CALS-compliant, software application for processing:**
  - Engineering Change Proposals (ECPs)
  - Request For Waivers (RFWs)
  - Request For Deviations (RFDs)
- **In short, a PAPERLESS way to create, maintain, and review change documents.**

Configuration Management Information System (CMIS)

- CMIS is designed to interface with existing systems that facilitate the collection, storage, manipulation, and use of CM, engineering, logistics, and procurement technical data. **CMIS interfaces with MEARS, JEDMICS, and other legacy databases and systems.**

- CMIS provides closed-loop Configuration Management (CM) over a product's lifecycle by balancing rapid access to accurate information and controlling product modification. CMIS provides a reliable and efficient method of managing your product data - online and on your desktop.

Integrated Digital Environment (Program Level)

- **DCMC Engineering Role**
  - Be aware of the move to use digital information
  - Ensure you have access to product definition and support data
  - Develop competency in using digital systems